

=> d his

(FILE 'HOME' ENTERED AT 14:34:37 ON 16 DEC 2008)

FILE 'REGISTRY' ENTERED AT 14:34:59 ON 16 DEC 2008

L1           STRUCTURE UPLOADED  
L2           STRUCTURE UPLOADED  
L3           0 S L1 AND L2  
L4           0 S L1 AND L2 FULL  
L5           7 S L1  
L6           214 S L1 FULL  
L7           2 S L2  
L8           81 S L2 FULL  
L9           0 S L6 AND L8

FILE 'CAPLUS' ENTERED AT 14:42:19 ON 16 DEC 2008

L10          112 S L6  
L11          5 S L8  
L12          0 S L10 AND L11

=> fil reg

FILE 'REGISTRY' ENTERED AT 14:46:10 ON 16 DEC 2008

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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 15 DEC 2008 HIGHEST RN 1084993-68-9

DICTIONARY FILE UPDATES: 15 DEC 2008 HIGHEST RN 1084993-68-9

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TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

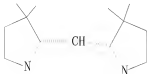
REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

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L1 HAS NO ANSWERS

L1           STR

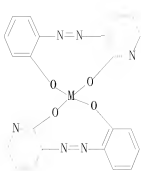


Structure attributes must be viewed using STN Express query preparation.

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L2 HAS NO ANSWERS

L2           STR



Structure attributes must be viewed using STN Express query preparation.

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FILE 'CAPLUS' ENTERED AT 14:47:08 ON 16 DEC 2008
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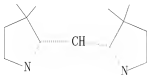
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FILE COVERS 1907 - 16 Dec 2008 VOL 149 ISS 25
FILE LAST UPDATED: 15 Dec 2008 (20081215/ED)
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Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

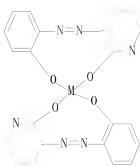
Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/legal/infopolicy.html>  
'FIONA' IS DEFAULT FORMAT FOR 'CAPLUS' FILE

```
=> d que 112 stat
L1 STR
```



Structure attributes must be viewed using STN Express query preparation.  
L2 STR



Structure attributes must be viewed using STN Express query preparation.

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L8          81 SEA FILE=REGISTRY SSS FUL L2
L10         112 SEA FILE=CAPLUS ABB=ON  PLU=ON  L6
L11         5 SEA FILE=CAPLUS ABB=ON  PLU=ON  L8
L12         0 SEA FILE=CAPLUS ABB=ON  PLU=ON  L10 AND L11
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=> d l11 1-5 ide can

'IDE' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'

ENTER DISPLAY FORMAT (.F10NA):bib abs hitstr





L11 ANDER 3 OF 6 CAPLUS -COPYRIGHT 2009 ACS on STN (Continued)

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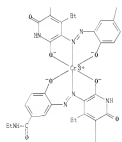
IN 100012-95-8 CAPLUS  
ON Chromium(+3), bis[1',2'-dihydro-6'-hydroxy-5'-[(2'-hydroxy-4,5'-dimethylphenyl)amino]-4'-methyl-2'-oxo-1,3'-bigyridinolato(2-)]-, chloride (9CI) (A INDEX NAME)

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L11 ANDER 3 OF 6 CAPLUS -COPYRIGHT 2009 ACS on STN (Continued)

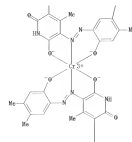
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L11 ANDER 3 OF 6 CAPLUS -COPYRIGHT 2009 ACS on STN (Continued)

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IN 100012-96-0 CAPLUS  
ON Chromium(+3), bis[4'-ethyl-5'-[(1s-[methylamino]carbonyl)-2'-hydroxyphenyl]amino]-1',2'-dihydro-6'-hydroxy-2'-oxo-1,3'-bigyridinolato(2-)]-, chloride (9CI) (A INDEX NAME)

L11 ANDER 3 OF 6 CAPLUS -COPYRIGHT 2009 ACS on STN (Continued)

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IN 100012-94-0 CAPLUS  
ON Chromium(+3), bis[1',2'-dihydro-6'-hydroxy-5'-[(2'-hydroxy-5'-iodophenyl)amino]-4'-methyl-2'-oxo-1,3'-bigyridinolato(2-)]-, chloride (9CI) (A INDEX NAME)

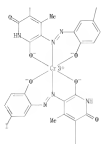
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L11 ANDER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)

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IN 100012-96-1 CAPLUS  
CN Chromium(III), bis[5'-[(5'-acetyl(amino)-2-hydroxyphenyl)azo]-1',2'-dihydro-6'-hydroxy-4'-methyl-2'-oxo-1,3'-bipyridinolato(2-)]-, chloride (Cl) (CA INDEX NAME)

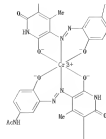
L11 ANDER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)

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L11 ANDER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

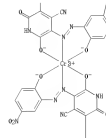
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IN 100012-96-2 CAPLUS  
CN Chromium(III), bis[5'-[(5'-acetoxy-1',2'-dihydro-6'-hydroxy-4'-[(2-hydroxy-6-nitrophenyl)azo]-2'-oxo-1,3'-bipyridinolato(2-)]-, bromide (Br) (CA INDEX NAME)

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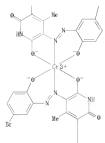


IN 100012-96-3 CAPLUS  
CN Chromium(III), bis[5'-[(5'-bromo-2-hydroxyphenyl)azo]-1',2'-dihydro-6'-hydroxy-4'-dimethyl-2'-oxo-1,3'-bipyridinolato(2-)]-, chloride (Cl) (CA INDEX NAME)

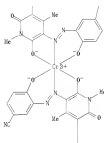
L11 ANDER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
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L11 ANDER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
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IN 100012-20-2 CAPLUS  
ON Chromium(IV), bis[5'-[[5-(aminoxylformyl)-2-hydroxyphenyl]azo]-1',2'-dihydro-6'-hydroxy-4'-methyl-1'-oxadecyl]-2'-oxo-1,3'-bipyridinolato(2-)]-, chloride (KCl) (CA INDEX NAME)

L11 ANDER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
PAGE 3-A



IN 100012-20-4 CAPLUS  
ON Chromium(IV), bis[5'-[(5-cyano-2-hydroxyphenyl)azo]-1',2'-dihydro-6'-hydroxy-1',4'-dimethyl-2'-oxo-1,3'-bipyridinolato(2-)]-, chloride (KCl) (CA INDEX NAME)

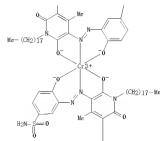
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L11 ANDER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
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L11 ANDER 3 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

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IN 100013-00-1 CAPLUS

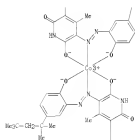
ON Chromium(1+), bis[1'-[2-(4-methylphenyl)-2',2'-dihydro-6'-hydroxy-5'-[(2-hydroxy-5-methyl-5-nitrophenyl)amino]-4-methyl-2'-oxo-1,3'-bipyridinolato(2-)]], chloride (KCl) (CA INDEX NAME)

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L11 ANDER 3 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

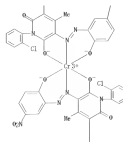
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L11 ANDER 3 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

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IN 100013-01-2 CAPLUS

ON Cobalt(1+), bis[3'-chloro-1',2'-dihydro-6'-hydroxy-5'-[(2-hydroxy-5-(1,1,3,3-tetramethylbutyl)phenyl)amino]-4-methyl-2'-oxo-1,3'-bipyridinolato(2-)]], chloride (KCl) (CA INDEX NAME)

L11 ANDER 3 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

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IN 100013-02-3 CAPLUS

ON Chromium(1+), bis[4'-cyano-1',2'-dihydro-6'-hydroxy-5'-[(2-hydroxy-5-(methoxycarbonyl)phenyl)amino]-2'-oxo-1,3'-bipyridinolato(2-)]], chloride (KCl) (CA INDEX NAME)

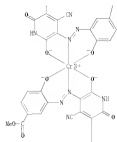
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L11 ANDER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)

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IN 100013-05-4 CAPLUS  
CN Chromium(II), bis[5'-[4-(acetoxycarbonyl)-2-hydroxyphenyl]azo]-1',2'-dihydro-6'-hydroxy-3',4'-dimethyl-2'-oxo-1,3'-bipyridinolato(2-)]-, chloride (KCI) (CA INDEX NAME)

L11 ANDER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)

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IN 100013-04-8 CAPLUS  
CN Chromium(II), bis[5'-[4-(5-acetyl-2-hydroxyphenyl)azo]-1',2'-dihydro-6'-hydroxy-3'-methyl-2'-oxo-1,3'-bipyridinolato(2-)]-, chloride (KCI) (CA INDEX NAME)

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IN 100013-05-6 CAPLUS  
CN Cobalt(II), bis[1'-butyl-6'-[4-(1,1-dimethylethyl)-2-hydroxyphenyl]azo]-1',2'-dihydro-6'-hydroxy-6'-methyl-2'-oxo-1,3'-bipyridinolato(2-)]-, chloride (KCI) (CA INDEX NAME)

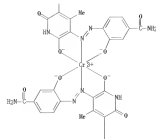
L11 ANDER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

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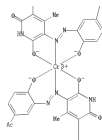
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L11 ANDER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

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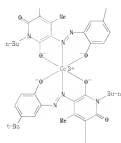
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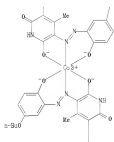


L11 ANDER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
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L11 ANDER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
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● Cl<sup>-</sup>

IN 1000546-2 CAPLUS  
ON Cobalt(II), bis[5-[(6-hydroxy-2-hydroxyphenyl)azo]-1',2'-dihydro-6'-hydroxy-4'-methyl-2'-oxo-1,3'-bipyridinolato(2-)]-, chloride (Cl<sup>-</sup>) (CA 2006 3046)

L11 ANDER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
PAGE 2-A



● Cl<sup>-</sup>

IN 1000546-2 CAPLUS  
ON Cobalt(II), bis[5-[(6-hydroxy-2-hydroxyphenyl)azo]-1',2'-dihydro-6'-hydroxy-4'-methyl-2'-oxo-1,3'-bipyridinolato(2-)]-, chloride (Cl<sup>-</sup>) (CA 2006 3046)

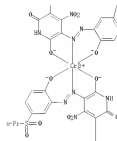
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L11 ANDER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
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L11 ANDER 3 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

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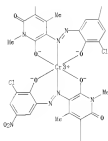
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ON Chromium(IV), bis[5'-bromo-5'-[(3,5-dichloro-2-hydroxyphenyl)amino]-1',2'-dihydro-6'-hydroxy-2'-oxo-1,3'-bipyridinolato(2-)]-, chloride (XCL) (CA INDEX NAME)

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L11 ANDER 3 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

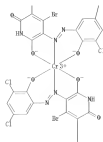
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L11 ANDER 3 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

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IT 100029-45-4P  
RE: IMF (Industrial manufacture); PREP (Preparation)  
Composition of, as dye for color electrophotog)  
IN 100029-45-4 CAPLUS  
ON Chromium(IV), bis[5'-[3-chloro-2-hydroxy-5-nitrophenylamino]-1',2'-dihydro-6'-hydroxy-1,4'-bipyridyl-2'-oxo-1,3'-bipyridinolato(2-)]-, chloride (XCL) (CA INDEX NAME)

L11 ANDER 3 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

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L11 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2006 ACS ON STN

AN 1995-624387 CAPLUS

IN 10072387

ORIP 10074013A, 36046A

TI Electrochromic color tuner

PA Hologate Chemical Co., Ltd., Japan

DO Jpn. Kokai Tokkyo Koho, 8 pp.

CLASS. JICLAP

IP Patent

LA Japanese

PUBL. CH

|      | PATENT NO.     | KIND | DATE     | APPLICATION NO | DATE     |
|------|----------------|------|----------|----------------|----------|
| FI   | JP 60100505    | A    | 19950619 | JP 1985-215085 | 19831117 |
| PRAT | JP 6000506     | B    | 19950916 |                |          |
| GI   | JP 1995-215085 |      | 19951117 |                |          |

## \* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AS An electrochromic tuner contains, as a charge-controlling agent and a colorant, a 2:1 metal complex having the general structure I (R = H, Cl-4 alkyl or alkylary, Cl-6, allylphenyl, aryl, aralkyl, arylalkenyl, arylalkynyl, Cl-3 alkylaminoalkenyl, Cl-3 alkylaminoalkenyl, NO<sub>2</sub>, CN, halo, ar = 1-4; R groups may not be identical to each other when ar = 2, 3; R<sub>1</sub> = H, halo, CN, NO<sub>2</sub>, Me, Et, Pr; R<sub>2</sub> = H, Cl-3 alkyl, (substituted) Ph; R<sub>3</sub> = Cl-4 alkyl, halo, ar, Cy, Cl-6, aralkenyl). These six dyes have advantages in stability and durability over frequently used nigrosine dyes. (See, II) 2 and 3 black, 10 parts were mixed with 90 methacrylate-styrene copolymer 100 parts, kneaded, cooled, and pulverized to obtain a toner (10-25 wt). The toner's part was mixed with the binder 90 parts to give an electrochromic developer showing an average charge capacity of 17 eC/g and producing good quality copies.

II 9959-19-6 9959A-09-9 9959A-02-1

9959A-02-2 9959A-08-4 9959A-03-6

9959A-08-7 9959A-09-1 9959A-01-0

9959A-01-4 9959A-06-5 9959A-04-6

9959A-04-7 9959A-08-4 9959A-07-5

9959A-08-6 9959A-09-2 1000A-01-4

IN 10M (technical or engineered material use); USBS (Sme)

IN electrochromic toners containing, for improved charge control and stability.

IN 9959-19-6 CAPLUS

IN Chromium(1+), bis[1'-1',2'-dihydro-6'-hydroxy-8'-(2'-hydroxy-6'-nitrophenyl)azo]-1',2'-dihydro-6'-methyl-2'-methyl-2'-pyridyl]-4-methylpyridiniumate(2-)], chloride (9CI) (CA INDEX NAME)

L11 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2006 ACS ON STN

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IN 9959A-09-9 CAPLUS

IN Chromium(1+), bis[1'-1',2'-dihydro-6'-hydroxy-8'-(2'-hydroxy-6'-nitrophenyl)azo]-1',2'-dihydro-6'-methyl-2'-methyl-2'-pyridyl]-4-methylpyridiniumate(2-)], chloride (9CI) (CA INDEX NAME)

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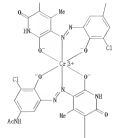
L11 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2006 ACS ON STN

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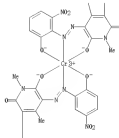
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L11 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2006 ACS ON STN

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IN 9959A-22-1 CAPLUS

IN Chromium(1+), bis[1'-1',2'-dihydro-6'-hydroxy-8'-methyl-2'-methyl-2'-pyridyl]-4-methylpyridiniumate(2-)], sulfate (9CI) (CA INDEX NAME)

ON 1

CON 9959A-21-9

COP C04 H09 C16 C2 NO 06

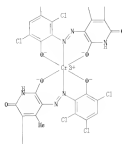
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L11 ANDER 4 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

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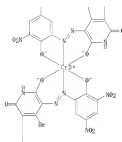


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IN 00094-25-6, CAPLUS  
 OR Chromium(IV), bis(1'-[2-(chloro-6'-hydroxy-6-nitrophenyl)azo]-1',2'-dihydro-6'-hydroxy-4,4'-dimethyl-2'-oxo-1'-phenyl-1,3'-bipyridinolato(2-))-, bromide (OC2) (A INDEX NAME)  
 OR 1  
 OR 00094-24-0  
 OR 148 154 C12 Cr N10 O10  
 OC1 C22

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OR 2  
 OR 14800-79-6  
 OR 06 5



IN 00094-25-2, CAPLUS  
 OR Chromium(IV), bis(1'-2'-ethoxy-6'-hydroxy-1'-[2-hydroxy-5,5'-diisotrophenyl]azo)-4'-methyl-2'-oxo-1,3'-bipyridinolato(2-))-, bromide (OC2) (A INDEX NAME)

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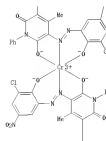


L11 ANDER 4 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

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L11 ANEXER 4 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

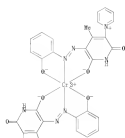
CM 2

CIN 14790-75-0  
CIP Cl 04

IN 99294-57-6 CAPLUS

CN Chroma(1+), bis[1',2'-dihydro-6'-hydroxy-5'-[(2-hydroxyphenyl)amino]-4'-methyl-2'-oxo-1,5'-bipyridinato(2-)]-, nitrate (XCI) (CA INDEX NAME)

CM 1

CIN 99294-56-6  
CIP C14 Cl4 Cr N8 O6  
CCI CCS

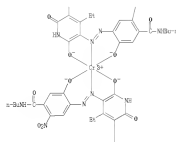
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L11 ANEXER 4 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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IN 99294-56-6 CAPLUS

CN Chroma(1+), bis[1',2'-dihydro-6'-hydroxy-5'-[(2-hydroxy-4'-methoxyphenyl)-2-methylpyridyl]amino]-4'-methyl-2'-oxo-1,5'-bipyridinato(2-)]-, perchlorate (XCI) (CA INDEX NAME)

CM 1

CIN 99294-59-6  
CIP C18 H19 Cr N10 O10  
CCI CCS

L11 ANEXER 4 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

CM 2

CIN 14790-05-0  
CIP N 05

IN 99294-58-7 CAPLUS

CN Chroma(1+), bis[5'-[[4-(4-butylamino)carboxyl-2-hydroxy-5'-nitrophenyl]amino]-4'-ethyl-1',2'-dihydro-6'-hydroxy-2'-oxo-1,5'-bipyridinato(2-)]-, chloride (XCI) (CA INDEX NAME)

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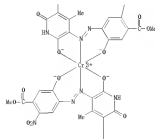


L11 ANEXER 4 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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L11 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

Q2

OR 14792-02-0  
 CF Cl 94



IN 90094-31-5 CAPLUS

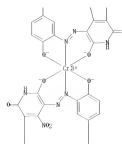
OR Chromium(III), bis[4',2'-dihydro-6'-hydroxy-5'-[[2'-hydroxy-6'-(acetylthio)phenyl]amino]-4'-nitro-2'-oxo-1,5'-bipyridinolato(2-)]-, bromide (9CI) (A INDEX NAME)

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L11 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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IN 90094-33-4 CAPLUS

OR Chromium(III), bis[4'-cyano-1',2'-dihydro-6'-hydroxy-5'-(2-nitrophenyl)amino]-2'-oxo-1,5'-bipyridinolato(2-)]-, chloride (9CI) (A INDEX NAME)

L11 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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L11 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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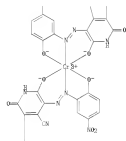
IN 90094-34-5 CAPLUS

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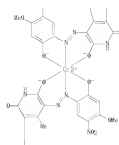




L11 ANDREX 4 OF 5 CAPLUS - COPYRIGHT 2006 ACS on STN

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IN 9909-05-6 CAPLUS  
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L11 ANDREX 4 OF 5 CAPLUS - COPYRIGHT 2006 ACS on STN

(Continued)

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IN 9909-06-7 CAPLUS  
CN Chromium [3+], bis[1'-[2'-(4,5-dichloro-2-hydroxyphenyl)azo]-1,2-dihydro-6'-hydro-4'-dimethyl-2'-oxo-3-pyridinyl]-4-methylpyridin-5-ylidene]-, iodide (9CI) (CA INDEX NAME)

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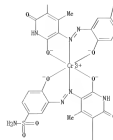
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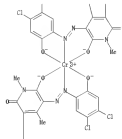
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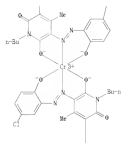


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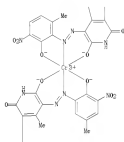
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L11 ANDER 4 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
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IN 99240-88-6 CAPLUS  
ON Schick(14), bis[2-[(4-cyano-2-hydroxyphenyl)azo]-1',2'-dihydro-6'-hydroxy-5'-methyl-2'-oxo-1,5'-bispyridinimato(2-)]-, chloride (Cl⁻) (CA INDEX 1995)

L11 ANDER 4 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
PAGE 2-A

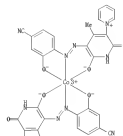


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ON Chroma(14), bis[2-chloro-1',2'-dihydro-6'-hydroxy-5'-[(2-hydroxy-5'-nethyl-3'-nitrophenyl)azo]-3'-methyl-2'-oxo-1,5'-bispyridinimato(2-)]-, chloride (Cl⁻) (CA INDEX 1995)

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L11 ANDER 4 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
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IN 99213-49-2 CAPLUS  
ON Schick(14), bis[2-[(5-(acetylamo)-2-hydroxy-3-nitrophenyl)azo]-1',2'-dihydro-6'-hydroxy-4'-methyl-2'-oxo-1,5'-bispyridinimato(2-)]-, chloride (Cl⁻) (CA INDEX 1995)

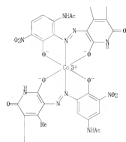
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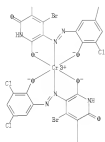
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L11 ANDER 4 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN

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● Cl<sup>-</sup>

L11 ANDER 4 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN

(Continued)

PAGE 3-A

● Cl<sup>-</sup>

IN 100662-47-6 CAPLUS

ON Chroma(5+), bis[4'-(benzo-5'-(3,5-dichloro-2-hydroxyphenyl)am)-1',2'-dihydro-6'-hydroxy-2'-oxa-1,3'-bipyridinolato(2-)]-, chloride (Cl<sup>-</sup>) (CA DOER NAME)

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Cl<sup>-</sup>

L11 ANDER 5 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN

IN 1060-150699 CAPLUS

ON 02-1206-99

ON 02-1206-99

TI Metalized and dye

ON Selenary, Denise

PA Imperial Chemical Industries Ltd., UK

SO Brit. 28 Pat. Appl. 28 pp.

ONEN: BAKIN

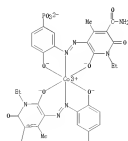
PT Patent

LA English

FOL DT 1

| PATENT NO.   | KIND | DATE     | APPLICATION NO. | DATE     |
|--|------|----------|-----------------|----------|
| PT GB 2012229  | A    | 19790909 | GB 1979-06996   | 19790910 |
| PRAT GB 1979-1456  | A    | 19790916 |                 |          |
| AB Sen. and unres. 2:1 Cr or Co complex also pyridone derivative dyes containing water-solubilizing phenolic acid groups were manufactured and used to dye cellulosic fibers in conjunction with fixation by heating at 90-230° in the presence of a carboxylate. Thm. 2-monomethyl-4-phosphonic acid (19798-96-3) was diazotized and coupled with 1-ethyl-2-carboxy-1-methyl-4-hydroxy-3-pyridone (15060-15-9) to give an azo dye (15060-19-7). The precipitated dye was dissolved in aqueous NaOH (4:1:0.9) and treated with collodion acetate 8 h at 90-95°. The isolated 2:1 Co complex (15066-12-5), when applied to cellulosic textiles by the process described in UK Patent Number 1,141,395, gave yellow-brown shades of excellent wash and light fastness. |      |          |                 |          |
| 15066-12-5   |      |          |                 |          |
| RE NEC. (Incellaneous) dyes, for cellulosic fibers, manufacture of)  |      |          |                 |          |
| 15066-12-5 CAPLUS  |      |          |                 |          |
| ON Cobaltate (2-), bis[4'-(5-(aminocarbonyl)-1-ethyl-1,4-dihydro-2-hydroxy-4-methyl-6-oxo-3-pyridinyl)am)-2'-hydroxyphenyl]phosphonate (2-)]-, pentahydrate (Cl <sup>-</sup> ) (CA DOER NAME)  |      |          |                 |          |

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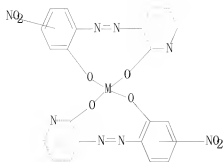


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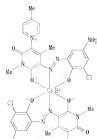
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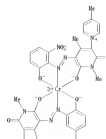
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(INCHI NAME)  
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CI C25, OM  
CX CA

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IN 285006-88-4 REGISTRY  
SD Entered STN 19 Nov 2004  
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CI C25, OM  
CX CA

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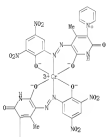


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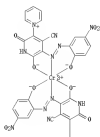
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CI C25, OM  
CX CA

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L17 NUMBER 4 OF 12 REGISTRY CONFIDENT 2009 ACS on STN  
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CX CA

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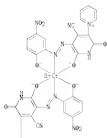


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SR CA

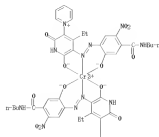
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L17 NUMBER 6 OF 12 REGISTRY CONFIDENT 2009 ACS on STN  
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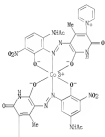
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L17 NUMBER 7 OF 12 REGISTRY CONFIDENT 2009 ACS on STN  
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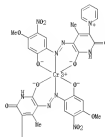
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L17 NUMBER 8 OF 12 REGISTRY CONFIDENT 2009 ACS on STN  
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CN Chromium(1+), bis[1',2'-dihydro-6'-hydroxy-5'-[(2-hydroxy-4-methoxy-6-nitrophenyl)amino]-6'-methyl-2'-oxo-1,3'-bipyridinolato(2-)]- (GCI) (CA INDEX NAME)  
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CI C25, OM  
SR CA

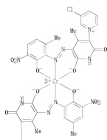
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L17 NUMBER 9 OF 12 REGISTRY COPYRIGHT 2009 ACS on STN  
 IN 747569-11-8 REGISTRY  
 SD Entered STN 12 Sep 2004  
 ON Chromium(IV), bis[3-chloro-2',2'-dihydro-6''-hydroxy-5''-[(2-hydroxy-5-methyl-2-methylphenyl)amino]-4-methyl-2'-oxo-1,2'-bipyridinato (2-)]-  
 (9CI) (CA INDEX NAME)  
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 CI C25, O8H  
 SR CA

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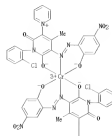


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L17 NUMBER 10 OF 12 REGISTRY COPYRIGHT 2009 ACS on STN  
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 ON Chromium(V), bis[1'-(2-chlorophenyl)-3',2'-dihydro-6''-hydroxy-5''-[(2-hydroxy-6-nitrophenyl)amino]-4-methyl-2'-oxo-1,2'-bipyridinato (2-)]-  
 (9CI) (CA INDEX NAME)  
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 CI C25, O8H  
 SR CA

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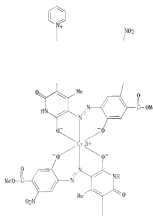


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L17 NUMBER 11 OF 12 REGISTRY COPYRIGHT 2009 ACS on STN  
 IN 9294-29-8 REGISTRY  
 SD Entered STN 30 Nov 1985  
 ON Chromium(IV), bis[1'-(2'-dihydro-6''-hydroxy-5''-[(2-hydroxy-4-methoxycarbonyl)-5-nitrophenyl]amino)-4-methyl-2'-oxo-1,2'-bipyridinato (2-)]-  
 (9CI) (CA INDEX NAME)  
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 ON Perchrom,  $\text{Cr}^{IV}$ , 2-dihydro-6''-hydroxy-5''-[(2-hydroxy-4-methoxycarbonyl)-5-nitrophenyl]amino-4-methyl-2'-oxo-3-pyridinyl-, chromium complex  
 MF C39 H29 C12 N10 O14  
 CI C25, O8H  
 SR CA

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L17 ANCHOR 12 00 12 REGISTRY COPYRIGHT 2009 ACS on STN

IN 2624-94-5 REGISTRY

SD Biotect STN 20 Nov 1985

CN Chromium(1+), bis[5'-[2-chloro-2'-hydroxy-5-nitrophenyl]azo]-1',2'-dihydro-4'-hydroxy-4,4'-diacetyl-2'-oxo-1'-phenyl-1,3'-bipyridine(2-)] - (Cl)

(CA INCHI NAME)

OTHER CA NAME NAME:

CN 1,3'-Bipyridine, 5'-[2-chloro-2'-hydroxy-5-nitrophenyl]azo]-1',2'-

dihydro-4'-hydroxy-4,4'-diacetyl-2'-oxo-1'-phenyl-, chromium complex

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CI C48 Cl2 O10

OR CA

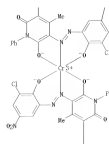
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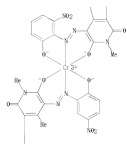




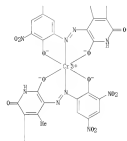
L18 ANDER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
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L18 ANDER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
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BN 90094-25-8 CAPLUS  
ON Chromium(III), bis[1,1',2'-dihydro-6'-hydroxy-6-nitrophenyl]azo-1,2'-dihydro-6'-hydroxy-4,4'-diamino-2'-nitro-1,1'-phenyl-1,3'-bipyridine-2(1)-, perchlorate (XCl) (CA INDEX NAME)  
Cl 1  
CBO 99094-24-0  
COP 148 154 Cl2 Cr NiW 010  
CCT 020

L18 ANDER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
PAGE 3-A



BN 90094-23-2 CAPLUS  
ON Chromium(III), bis[1,1',2'-dihydro-6'-hydroxy-6'-[2-hydroxy-3,5-dinitrobenzyl]azo-4'-nitrophenyl]-2'-nitro-1,3'-bipyridine-2(1)-, bromide (XCl) (CA INDEX NAME)

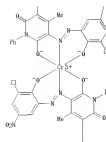
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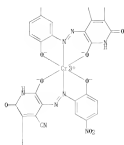




L18 ANDER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

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IN 96094-94-5 CAPLUS  
CN Chromium(IV), bis[1',2'-dihydro-6'-hydroxy-5'-[(2'-hydroxy-4-methoxy-5-nitrophenyl)amino]-4-methyl-2'-oxo-1,3'-bipyridinato(2-)]-, chloride (961) (CA INDEX NAME)

L18 ANDER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)

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IN 96000-97-5 CAPLUS  
CN Chromium(IV), bis[2-acetyl-6'-hydroxy-5'-[(2'-hydroxy-6-methyl-2-nitrophenyl)amino]-4-methyl-2'-oxo-1,3'-bipyridinato(2-)]-, chloride (961) (CA INDEX NAME)

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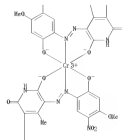
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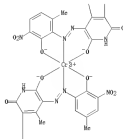
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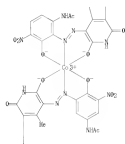
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| L21 | 16  | SEA | FILE=CAPLUS | ABB=ON | PLU=ON | "NOGUCHI AYASHI"/AU   |
| L22 | 122 | SEA | FILE=CAPLUS | ABB=ON | PLU=ON | L19 OR L20 OR L21     |
| L23 | 19  | SEA | FILE=CAPLUS | ABB=ON | PLU=ON | L22 AND CYANINE       |

=> d 1-19 bib abs













=> d 123 11 all



L25 ANKER 11 09 19 CAPLUS COMFIGHT 2006 ACS on STM

AK 2005-272590 CAPLUS

BY 143-50750

SD Entered STM: 08 Sep 2005

ST Short visible light absorbing cyanine dyes with good light

resistance and solubility

DE Akawa, Yasuhiko; Koyama, Yasuhiko; Nagashima,

Atsushi

PA Kabushiki Kaisha Hasekibara Seibutsu Kagaku Kenkyujo, Japan

PO PCT Int. Appl., 28 pp

COEN F1X02

JP Patent

LA Japanese

LC 0206005-00

L25 0206005-00, 0206005-14, 0206005-30

CC 64-9, Cyanine, Cyanine, Paperlike, Fluorescent, Brighteners, and Photographic

Sensitizers

PAN ON1

PATENT NO

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L25 ANKER 11 09 19 CAPLUS COMFIGHT 2006 ACS on STM (Continued)

AK 2005-272590 CAPLUS

BY 143-50750

SD Entered STM: 08 Sep 2005

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DE Akawa, Yasuhiko; Koyama, Yasuhiko; Nagashima,

Atsushi

PA Kabushiki Kaisha Hasekibara Seibutsu Kagaku Kenkyujo, Japan

PO PCT Int. Appl., 28 pp

COEN F1X02

JP Patent

LA Japanese

LC 0206005-00

L25 0206005-00, 0206005-14, 0206005-30

CC 64-9, Cyanine, Cyanine, Paperlike, Fluorescent, Brighteners, and Photographic

Sensitizers

PAN ON1

PATENT NO

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=> sel 123 11 rn  
E1 THROUGH E4 ASSIGNED

=> fil reg  
FILE 'REGISTRY' ENTERED AT 14:58:09 ON 16 DEC 2008  
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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
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STRUCTURE FILE UPDATES: 15 DEC 2008 HIGHEST RN 1084993-68-9  
DICTIONARY FILE UPDATES: 15 DEC 2008 HIGHEST RN 1084993-68-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

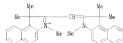
Please note that search-term pricing does apply when  
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REGISTRY includes numerically searchable data for experimental and  
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experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

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L24 ANKER 2 OF 4 REGISTRY COPYRIGHT 2006 ACS on STN  
IN 063662-11-2 REG12707  
SD Entered STN 28 Nov 2006  
CN 18-benz[e]indol-5-yl-2-[(1,3-dihydro-1,1,3-trimethyl-2H-benz[e]indol-2-ylidene)methyl]-1,3-dimethyl-, perchlorate (1:1) (CA INDEX NAME)  
OTHER CA INDEX NAME:  
CN 18-benz[e]indol-5-yl-2-[(1,3-dihydro-1,1,3-trimethyl-2H-benz[e]indol-2-ylidene)methyl]-1,3-dimethyl-, perchlorate (OCT)  
MF C11 H21 NO Cl O4  
SR CA  
LC STN Files: CA, CAPLUS, USPAPFULL  
CN 1  
CN 161205-60-8  
OCT C11 H21 NO

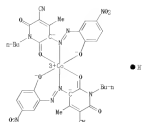


CN 2  
CN 14790-70-0  
OCT C1 O4  
  
1 REFERENCE IN FILE CA (1960 TO DATE)  
1 REFERENCE IN FILE CAPLUS (1960 TO DATE)  
REFERENCE 1: 145 268290

L24 ANKER 2 OF 4 REGISTRY COPYRIGHT 2006 ACS on STN (Continued)  
REFERENCE 2: 149 354046  
REFERENCE 3: 148 21194  
REFERENCE 4: 146 610490  
REFERENCE 5: 146 60710  
REFERENCE 6: 144 273700  
REFERENCE 7: 143 196410  
REFERENCE 8: 143 196400  
REFERENCE 9: 143 268290  
REFERENCE 10: 159 030072

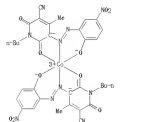
L24 ANKER 2 OF 4 REGISTRY COPYRIGHT 2006 ACS on STN  
IN 418681-60-2 REG12707  
SD Entered STN 21 May 2007  
CN Cobaltate(1-), bis[1-butyl-1,3,5,6-tetrahydro-5-[2-[(2-hydroxy-4(5-nitrophenyl)azan-4(1-methyl-5-oxo-6-oxo-6-(4-oxo-5-oxo-2-oxo-1,3,5-triazine-6-carboximidate(2-))-), hydrogen comp with N,N-diethylethanamine (1:1)] (CA INDEX NAME)  
OTHER CA INDEX NAME:  
CN Cobaltate(1-), bis[1-butyl-1,3,5,6-tetrahydro-5-[2-[(2-hydroxy-4(5-nitrophenyl)azan-4(1-methyl-5-oxo-6-oxo-6-(4-oxo-5-oxo-2-oxo-1,3,5-triazine-6-carboximidate(2-))-), hydrogen comp with N,N-diethylethanamine (1:1)] (OCT)  
MF C24 H50 Co N10 O10  
SR CA  
LC STN Files: CA, CAPLUS, USAPAT, USAPATFULL

CN 1  
CN 418681-79-6 OCT042-(0-7)  
OCT C24 H50 Co N10 O10 · H  
OCT C24 H50 Co N10 O10 · H



CN 2  
CN 121-64-8  
OCT CA H16 N  
  
B1  
B1-N-B1  
  
12 REFERENCES IN FILE CA (1960 TO DATE)  
13 REFERENCES IN FILE CAPLUS (1960 TO DATE)  
REFERENCE 1: 149-473007

L24 ANKER 3 OF 4 REGISTRY COPYRIGHT 2006 ACS on STN  
IN 220442-60-2 REG12707  
SD Entered STN 06 Apr 2001  
CN Cobaltate(1-), bis[1-butyl-1,3,5,6-tetrahydro-5-[2-[(2-hydroxy-4(5-nitrophenyl)azan-4(1-methyl-5-oxo-6-oxo-6-(4-oxo-5-oxo-2-oxo-1,3,5-triazine-6-carboximidate(2-))-), (OCT) (CA INDEX NAME)  
MF C24 H50 Co N10 O10  
SR CA  
LC STN Files: CA, CAPLUS, CASREACT, USAPATFULL



6 REFERENCES IN FILE CA (1960 TO DATE)  
6 REFERENCES IN FILE CAPLUS (1960 TO DATE)  
REFERENCE 1: 148 101960  
REFERENCE 2: 147-450014  
REFERENCE 3: 145-459006  
REFERENCE 4: 144-255479  
REFERENCE 5: 144 190760  
REFERENCE 6: 143 268290

L24 ANSWER 4 OF 4 REGISTRY COPYRIGHT 2006 ACS on STN

IN 002999-41-Q REGISTRY

SD Entered STN 29 Aug 2006

CM 2H-Indolium, 2-[(1,3,5-trimethyl-2H-indol-1-yl)idene)methyl]-

1,3,5-trimethyl-, perchlorate (2-1) (CA INDEX NAME)

OTHER CA INDEX NAME:

CM 2H-Indolium, 2-[(1,3,5-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,5-trimethyl-, perchlorate (2C1)

OTHER NAME:

CM NO 2112

MF C12 H17 N1 Cl O4

SR CA

LC STN Files: CA, CAPLIS, USPAPPELL

CM 1

CM 61575-70-0

CM 228 REV 80



CM 2

CM 14790-72-0

CM C1 O4



21 REFERENCES IN FILE CA (1960 TO DATE)

21 REFERENCES IN FILE CAPLIS (1960 TO DATE)

REFERENCE 1: 149 060521

REFERENCE 2: 148 060632

REFERENCE 3: 148 060631

REFERENCE 4: 145 219601

REFERENCE 5: 145 178784

REFERENCE 6: 143 190610

REFERENCE 7: 143 190609

REFERENCE 8: 143 148676

L24 ANSWER 4 OF 4 REGISTRY COPYRIGHT 2006 ACS on STN

(Continued)

REFERENCE 9: 143 260390

REFERENCE 10: 142 472665

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(FILE 'HOME' ENTERED AT 14:34:37 ON 16 DEC 2008)

FILE 'REGISTRY' ENTERED AT 14:34:59 ON 16 DEC 2008

L1 STRUCTURE UPLOADED  
D  
L2 STRUCTURE UPLOADED  
D  
L3 0 SEA SSS SAM L1 AND L2  
L4 0 SEA SSS FUL L1 AND L2  
L5 7 SEA SSS SAM L1  
L6 214 SEA SSS FUL L1  
L7 2 SEA SSS SAM L2  
D SCAN  
L8 81 SEA SSS FUL L2  
L\*\*\* DEL 0 S L6 AND L7  
L9 0 SEA ABB-ON PLU=ON L6 AND L8

FILE 'CAPLUS' ENTERED AT 14:42:19 ON 16 DEC 2008

L10 112 SEA ABB-ON PLU=ON L6  
L11 5 SEA ABB-ON PLU=ON L8  
L12 0 SEA ABB-ON PLU=ON L10 AND L11  
D L11 1-5 BIB ABS HITSTR

FILE 'REGISTRY' ENTERED AT 14:46:10 ON 16 DEC 2008

D L1  
D L2

FILE 'CAPLUS' ENTERED AT 14:47:08 ON 16 DEC 2008

D QUE L12 STAT  
D L11 1-5 IDE CAN

FILE 'HOME' ENTERED AT 14:47:54 ON 16 DEC 2008

FILE 'REGISTRY' ENTERED AT 14:49:30 ON 16 DEC 2008

L13 STRUCTURE UPLOADED  
D  
L14 1 SEA SSS SAM L13  
D SCAN  
L15 25 SEA SSS FUL L13  
D QUE L15 STAT  
L16 13 SEA ABB-ON PLU=ON L15 AND CAPLUS/LC  
L17 12 SEA ABB-ON PLU=ON L15 NOT L16  
D 1-12 IDE CAN

FILE 'CAPLUS' ENTERED AT 14:52:32 ON 16 DEC 2008

L18 3 SEA ABB-ON PLU=ON L15  
D 1-3 BIB ABS HITSTR  
E AIZAWA YASUSHI/AU  
L19 30 SEA ABB-ON PLU=ON "AIZAWA YASUSHI"/AU  
E KOYAMA YOSHINORI/AU  
L20 84 SEA ABB-ON PLU=ON "KOYAMA YOSHINORI"/AU  
E NOGUCHI AYASHI/AU  
L21 16 SEA ABB-ON PLU=ON "NOGUCHI AYASHI"/AU  
L22 122 SEA ABB-ON PLU=ON L19 OR L20 OR L21  
L23 19 SEA ABB-ON PLU=ON L22 AND CYANINE  
D QUE L23 STAT  
D 1-19 BIB ABS  
D L23 11 ALL

SEL L23 11 RN

L24 FILE 'REGISTRY' ENTERED AT 14:58:09 ON 16 DEC 2008  
4 SEA ABB-ON PLU-ON (103998-41-0/BI OR 330442-50-7/BI OR  
419581-80-9/BI OR 863962-11-2/BI)  
D 1-4 IDE CAN

#### FILE HOME

##### FILE REGISTRY

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STRUCTURE FILE UPDATES: 15 DEC 2008 HIGHEST RN 1084993-68-9

DICTIONARY FILE UPDATES: 15 DEC 2008 HIGHEST RN 1084993-68-9

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<http://www.cas.org/support/stngen/stdoc/properties.html>

#### FILE CAPLUS

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FILE COVERS 1907 - 16 Dec 2008 VOL 149 ISS 25

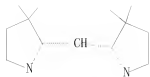
FILE LAST UPDATED: 15 Dec 2008 (20081215/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

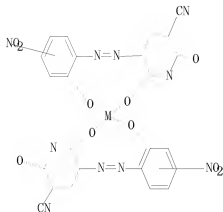
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<http://www.cas.org/legal/infopolicy.html>

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L1 STR



Structure attributes must be viewed using STN Express query preparation.  
 L6 214 SEA FILE=REGISTRY SSS FUL L1  
 L25 STR



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 L27 142 SEA FILE=REGISTRY SSS FUL L25  
 L28 14 SEA FILE=REGISTRY ABB=ON PLU=ON L6 AND L27

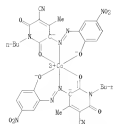
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L26 NUMBER 2 OF 14 REGISTRY COPYRIGHT 2009 ACS on STN  
IN 065059-67-8 REGISTRY  
SD Entered STN: 25 Sep 2009  
CN 2H-Pyridyl[2,3,5-bispyridines], 2-[[1,3-dihydro-1,3-dimethyl-5-(phenylmethyl)-  
2H-indol-2-ylidene(methyl)-1,3,5-trimethyl-, bis[1-methyl-1,2,4,6-tetraphenyl-5-[2-(2-oxo-  
nitrophenyl)diazenyl]-6-methyl-2-oxo-6-iso-4H-3-  
pyridinecarboxylato(2-)]cobaltate(1-)] (1:1) (CA INDEX NAME)  
MF C14 H20 Cl N10 O2 C14 H20 Co N10 O2  
CA  
LC STN Files: CA, CAPLUS

CH 1  
CIN 1065059-64-5  
COP C25 H20 N2



CH 2  
CIN 330442-60-7  
COP C14 H20 Co N10 O10  
CCL CCL



1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

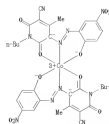
REFERENCE 1: 149 334046

L26 NUMBER 2 OF 14 REGISTRY COPYRIGHT 2009 ACS on STN  
IN 065059-66-7 REGISTRY  
SD Entered STN: 25 Sep 2009  
CN 2H-Pyridyl[2,3,5-bispyridines], 2-[[1,3-dihydro-1,3-dimethyl-5-(phenylmethyl)-  
2H-indol-2-ylidene(methyl)-1,3,5-trimethyl-, bis[1-methyl-1,2,4,6-tetraphenyl-5-[2-(2-  
oxo-4H-3-pyridinecarboxylato(2-)]cobaltate(1-)] (1:1) (CA INDEX NAME)  
MF C14 H20 Co N10 O10 C22 H26 N2  
CA  
LC STN Files: CA, CAPLUS

CH 1  
CIN 1065059-62-5  
COP C24 H20 Co N10 O10  
CCL CCL



CH 2  
CIN 330442-60-7  
COP C24 H20 Co N10 O10  
CCL CCL

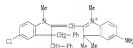


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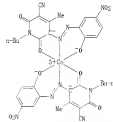
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L18 NUMBER 4 OF 14 REGISTRY COPYRIGHT 2009 ACS on STN  
IN 062061-90-0 REGISTRY  
SD Entered STN: 26 Oct 2007  
CN 2H-Indolyl-, 2-[[1,3-dihydro-1,3-dimethyl-5-bis(phenylmethyl)-2H-indol-2-ylidene(methyl)-1,3,5-trimethyl-, bis[1-methyl-1,2,4,6-tetraphenyl-5-[2-(2-oxo-4H-3-pyridinecarboxylato(2-)]cobaltate(1-)] (1:1) (CA INDEX NAME)  
MF C18 H20 Cl N6 O2 C14 H20 Co N10 O10  
CA  
LC STN Files: CA, CAPLUS

CH 1  
CIN 062061-90-0  
COP C18 H20 Cl N6 O2



CH 2  
CIN 330442-60-7  
COP C14 H20 Co N10 O10  
CCL CCL



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1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

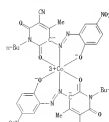
REFERENCE 1: 147 450814

L18 NUMBER 4 OF 14 REGISTRY COPYRIGHT 2009 ACS on STN  
IN 062061-90-3 REGISTRY  
SD Entered STN: 26 Oct 2007  
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MF C14 H20 Co N10 O10 C15 H12 N2  
CA  
LC STN Files: CA, CAPLUS

CH 1  
CIN 062061-90-3  
COP C15 H12 N2



CH 2  
CIN 330442-60-7  
COP C14 H20 Co N10 O10  
CCL CCL



1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 147 450814



L28 ANKER 6 OF 14 REGISTRY COPYRIGHT 2008 ACS on STN  
IN 04131-85-8 REGISTRY  
SD Entered STN: 12 Dec 2006  
CN SR Indium, 2-[[1,3-dihydro-1,3-dimethyl-2-(phenylmethyl)-2H-imidazo-  
-v[5,1-b]pyridin-5-yl]-2,2,6,6-tetrahydro-5-[[2-  
-hydroxy-40]-2-nitrophenyl]azo-4-methyl-2-oxo-6-(oxo-  
-40)-2-pyridinecarboxylate(2-)]acetate(1-)] QCL1 CA INDEX  
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SI CA  
LC STN Files: CA, CAPLUS

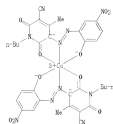
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CN 04131-81-6  
COP C29 H31 N2



CH 2

CN 330642-60-7  
COP C24 H30 Co N10 O10  
CCL CCL



1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

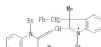
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L28 ANKER 6 OF 14 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)

L28 ANKER 6 OF 14 REGISTRY COPYRIGHT 2008 ACS on STN  
IN 04131-86-9 REGISTRY  
SD Entered STN: 12 Dec 2006  
CN SR Indium, 1-ethyl-2-[[1-ethyl-1,3-dihydro-2-methyl-2-(phenylmethyl)-2H-  
imidazo-5-v[5,1-b]pyridin-5-yl]-2-ethyl-2-(phenylmethyl)-  
bis[1-butyl-1,3,5,6-tetrahydro-5-[[2-hydroxy-40]-2-nitrophenyl]azo-  
-40]-4-methyl-2-oxo-6-(oxo-40)-2-pyridinecarboxylate(2-)]  
acetate(1-)] QCL1 CA INDEX NAME)  
MF C31 H39 N2 C24 H30 Co N10 O10  
SI CA  
LC STN Files: CA, CAPLUS

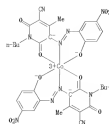
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COP C31 H39 N2



CH 2

CN 330642-60-7  
COP C24 H30 Co N10 O10  
CCL CCL



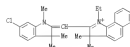
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1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 145-50710

L28 ANKER 7 OF 14 REGISTRY COPYRIGHT 2008 ACS on STN  
IN 066737-38-2 REGISTRY  
SD Entered STN: 04 Nov 2006  
CN SR Benzal indium, 2-[[6-chloro-1,3,5-trimethyl-2H-imidazo-2-  
-v[5,1-b]pyridin-5-yl]-1-ethyl-2,3-dimethyl-  
bis[1-butyl-1,3,5,6-tetrahydro-5-[[2-hydroxy-40]-5-nitrophenyl]azo-  
-40]-4-methyl-2-oxo-6-(oxo-40)-2-pyridinecarboxylate(2-)]  
acetate(1-)] QCL1 CA INDEX NAME)  
MF C34 H30 Co N10 O10 C28 H30 Cl N2  
SI CA  
LC STN Files: CA, CAPLUS, USFATFILE

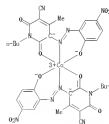
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COP C28 H30 Cl N2



CH 2

CN 330642-60-7  
COP C24 H30 Co N10 O10  
CCL CCL



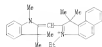
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REFERENCE 1: 145-396410

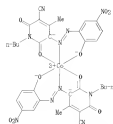
REFERENCE 2: 145-396409

128 ANKER 6 OF 14 REGISTRY COPYRIGHT 2009 ACS on STN  
 IN 066757-21-1 REGISTRY  
 SD Entered STN 04 Nov 2006  
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 MF C14 H20 Co N10 O10 C27 H29 N2  
 CA  
 LC STN Files: CA, CAPLUS, USPAPPELL

CH 1  
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 CP C27 H29 N2



CH 2  
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 CP C14 H20 Co N10 O10  
 CC1 CCS

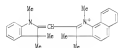


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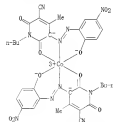
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128 ANKER 6 OF 14 REGISTRY COPYRIGHT 2009 ACS on STN  
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 SD Entered STN 04 Nov 2006  
 CN 1P-Benz[e]indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-1,3,3-trimethyl-1H-[1,4-bis(1,1,2,6,6-tetrahydro-8-[[2-(hydroxy-4(6-nitrophenyl)azo-4(7)-4-methyl-2-pyridinecarboxylate(2-))cololate(1-))OCl]]CA INDEX NAME)  
 MF C14 H20 Co N10 O10 C27 H29 N2  
 CA  
 LC STN Files: CA, CAPLUS, USPAPPELL

CH 1  
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 CP C27 H29 N2



CH 2  
 CN 330442-60-7  
 CP C14 H20 Co N10 O10  
 CC1 CCS



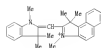
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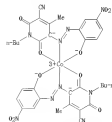
128 ANKER 6 OF 14 REGISTRY COPYRIGHT 2009 ACS on STN (Continued)

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 MF C14 H20 Co N10 O10 C27 H29 N2  
 CA  
 LC STN Files: CA, CAPLUS, USPAPPELL

CH 1  
 CN 066757-21-6  
 CP C27 H29 N2



CH 2  
 CN 330442-60-7  
 CP C14 H20 Co N10 O10  
 CC1 CCS



2 REFERENCES IN FILE CA (1967 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 143-206410  
 REFERENCE 2: 143-206409

L26 ANKER 11 OF 14 REGISTRY COPY/RIGHT 2009 ACS on STM

IN ANKER11-2 REGISTRY

SD Entered STM: 04 Nov 2006

CM 2H-Indolium, 2-[[1,2-dihydro-3,3-dimethyl-1-(2,2,2-trifluoro-1-(trifluoromethyl)-2H-indol-2-ylidene)methyl]-2,3-dimethyl-1-(2,2,2-trifluoro-1-(trifluoromethyl)ethyl)-2-methyl-1,2,4,6-tetrahydro-5-[2-(hydroxy-4(6-nitrophenyl)idene)-4-methyl-2-oxo-6-oxo-4H-3-pyridinecarboxylate(2-)]-1-ylidene]-2-ylidene] CA INDEX NAME

MF C24 H20 Co N10 O10 C27 H25 F12 N3

SA CA

LC STM Files: CA, CAPLUS, USFATMILL

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CIN 866757-50-4

CMF C27 H25 F12 N3

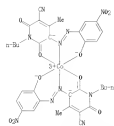


CM 2

CIN 150442-60-7

CMF C24 H20 Co N10 O10

CC1 CCS



2 REFERENCES IN FILE CA (1960 TO DATE)

2 REFERENCES IN FILE CAPLUS (1960 TO DATE)

L26 ANKER 12 OF 14 REGISTRY COPY/RIGHT 2009 ACS on STM

IN ANKER12-2 REGISTRY

SD Entered STM: 04 Nov 2006

CM 2H-Indolium, 2-[[1,2-dihydro-3,3-dimethyl-1-(2H-indol-2-ylidene)methyl]-5,3-diphenyl-1,1,4,4,6-tetrahydro-5-[2-(hydroxy-4(6-nitrophenyl)idene)-4-methyl-2-oxo-6-oxo-4H-3-pyridinecarboxylate(2-)]-1-ylidene]-2-ylidene] CA INDEX NAME

MF C24 H20 Co N10 O10 C27 H25 N3

SA CA

LC STM Files: CA, CAPLUS, USFATMILL

CM 1

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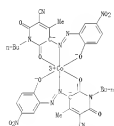


CM 2

CIN 150442-60-7

CMF C24 H20 Co N10 O10

CC1 CCS



2 REFERENCES IN FILE CA (1960 TO DATE)

2 REFERENCES IN FILE CAPLUS (1960 TO DATE)

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REFERENCE 2: 145-206409

L26 ANKER 11 OF 14 REGISTRY COPY/RIGHT 2009 ACS on STM (Continued)

REFERENCE 1: 145-206410

REFERENCE 2: 145-206409

L26 ANKER 13 OF 14 REGISTRY COPY/RIGHT 2009 ACS on STM

IN ANKER13-2 REGISTRY

SD Entered STM: 04 Nov 2006

CM 2H-Indolium, 2-[[1,2-dihydro-3,3,9-trimethyl-2H-indol-2-ylidene)methyl]-1-ethyl-3,3-dimethyl-1,1,4,4,6-tetrahydro-5-[2-(hydroxy-4(6-nitrophenyl)idene)-4-methyl-2-oxo-6-oxo-4H-3-pyridinecarboxylate(2-)]-1-ylidene]-2-ylidene] CA INDEX NAME

MF C24 H20 Co N10 O10 C24 H20 N3

SA CA

LC STM Files: CA, CAPLUS, USFATMILL

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CIN 866757-27-9

CMF C24 H20 N3

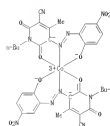


CM 2

CIN 150442-60-7

CMF C24 H20 Co N10 O10

CC1 CCS



2 REFERENCES IN FILE CA (1960 TO DATE)

2 REFERENCES IN FILE CAPLUS (1960 TO DATE)

REFERENCE 1: 145-206410

REFERENCE 2: 145-206409

L26 ANWER 14 09 14 REGISTRY COMVEIGHT 2009 ACS on STN  
IN 066751-26-8 REGISTRY

SD Entered: 07/01/2009

CM 28-Indolium, 2-((1,3-dihydro-1,3,5-trimethyl-2H-imidol-2-ylidene)methyl)-  
1,3,5-trimethyl-, bis(2-hydroxy-1,2,4,6-tetrahydronaph[2,2'-bipyridin-  
4-yl-6-nitrophenyl)diazenyl-4-methyl-2-oxo-6-(oxo-  
4-oxo-2-pyridinemethenyl)ato[2,2']triazolate(1-)- (1:1) (CA INDEX)

NAME

OTHER CA INDEX NAMES:

CM 28-Indolium, 2-((1,3-dihydro-1,3,5-trimethyl-2H-imidol-2-ylidene)methyl)-  
1,3,5-trimethyl-, bis(1,4-ethyl-1,2,4,6-tetrahydronaph[2,2'-bipyridin-  
4-yl-6-nitrophenyl)diazenyl-4-methyl-2-oxo-6-(oxo-4-oxo-2-pyridinemethenyl)ato[2,2']triazolate(1-)- (1:1)

MF

CA

LC

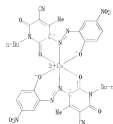
STN Files: CA, CAPLIS, USPATFULL

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OPF 134 ISD C5 N16 650

CCZ C22



CM 2

CRY 61115-10-0

OPF 225 ISD C5 N16 650



5 REFERENCES IN FILE CA (1962 TO DATE)

L26 ANWER 14 09 14 REGISTRY COMVEIGHT 2009 ACS on STN  
5 REFERENCES IN FILE CAPLIS (1962 TO DATE)

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REFERENCES 1: 148-43448

REFERENCES 2: 148-21184

REFERENCES 3: 147-82900

REFERENCES 4: 143-306410

REFERENCES 5: 143-306409

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L29 14 L6 AND L27

=> fil capl  
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FILE COVERS 1907 - 16 Dec 2008 VOL 149 ISS 25  
FILE LAST UPDATED: 15 Dec 2008 (20081215/ED)

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<http://www.cas.org/legal/infopolicy.html>  
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L30 8 L28

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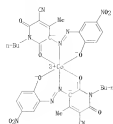








L20 ANEXER 7 OF 8 CAPLUS (COPYRIGHT 2006 ACS on STN) (Continued)



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CCL CCS

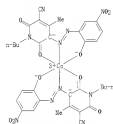
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CM 1

CIN 066757-27-9  
COP C24 B29 NG

CM 2

L20 ANEXER 7 OF 8 CAPLUS (COPYRIGHT 2006 ACS on STN) (Continued)



BS 066757-31-8 CAPLUS  
CN 2H-[indolium, 2'-[1,3-dihydro-3,3-dimethyl-1-(2,2,2-trifluoroethyl)-trifluoromethyl]ethyl]-2H-indol-2-ylidene)methyl]-3,3-dimethyl-1-(2,2,2-trifluoroethyl)-trifluoromethyl]ethyl]-, hexa[1-hydro]-1,2,4,5,6-tetrahydro-6-[(2'-Oxypropoxy)-4,5-methylenedioxy]-4-methyl-2-oxo-4'-oxo-4'-oxy-2'-pyridinecarboximidate(2'-)]cobaltate(1-)] (CCL) (CA INDEX NAME)

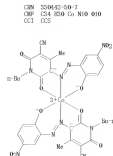
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CIN 066757-30-4  
COP C27 B23 F12 NG

CM 2

CIN 350442-00-7  
COP C24 B20 Co N10 010  
CCL CCS

L20 ANEXER 7 OF 8 CAPLUS (COPYRIGHT 2006 ACS on STN) (Continued)



BS 066757-29-1 CAPLUS  
CN 2H-[indolium, 1'-ethyl-2-[(1'-ethyl-3,3-dimethyl-2H-indol-2-ylidene)methyl]-3,3-dimethyl-, hexa[1-hydro]-1,2,4,5,6-tetrahydro-6-[(2'-Oxypropoxy)-4-nitrophenyl]azo-4,5-methylenedioxy]-4-methyl-2-oxo-4'-oxo-4'-oxy-2'-pyridinecarboximidate(2'-)]cobaltate(1-)] (CCL) (CA INDEX NAME)

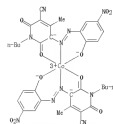
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CM 2

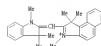
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COP C24 B20 Co N10 010  
CCL CCS

L20 ANEXER 7 OF 8 CAPLUS (COPYRIGHT 2006 ACS on STN) (Continued)



BS 066757-35-7 CAPLUS  
CN 2H-[Benzyl]indolium, 2'-[1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-1,1,3-trimethyl-, hexa[1-hydro]-1,2,4,5,6-tetrahydro-6-[(2'-Oxypropoxy)-4-nitrophenyl]azo-4,5-methylenedioxy]-4-methyl-2-oxo-4'-oxo-4'-oxy-2'-pyridinecarboximidate(2'-)]cobaltate(1-)] (CCL) (CA INDEX NAME)

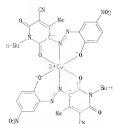
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CCL CCS

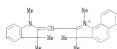
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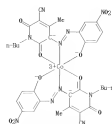
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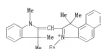
L20 ANEXER 7 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



IN 066751-37-1 CAPLUS  
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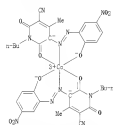
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COP C28 B21 AG



CM 2

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L20 ANEXER 7 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



IN 066751-39-3 CAPLUS  
CN 2F Benz[1,2-b:4,5-b']dipyrroline 2-[(4-methyl-3,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene(methyl)-1-methyl-3,3-dimethyl-5-allyl-ethyl-3,2,6,6-tetrahydro-5-[(2S)-hexa-4,6-dinitrohept-1-enoxy]-4-methyl-2-oxo-6-oxo-4H-3-pyridinecarboxylato(2-))co]alate(1-)] (CCL) (CA INDEX NAME)

CM 1

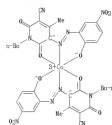
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CM 2

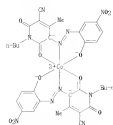
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L20 ANEXER 7 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)





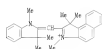
L20 ANDER 8 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



IN 066751-30-7 CAPLUS  
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CM 1

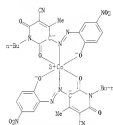
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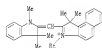
L20 ANDER 8 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



IN 066751-31-1 CAPLUS  
CN 2-[2-Benzyl-1-indolium-2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-3-methyl-1,1-dimethyl-5-[[1-ethyl-1,2,6,6-tetrahydro-5-[[2-(hexamethyl-6-nitrophenyl)azo- $\text{C}_6\text{H}_4$ ]-4-methyl-2-oxo-6-oxo- $\text{H}_2$ -3-pyridinecarboxylate(2-)]cobaltate(1-)](9CI) (CA INDEX NAME)

CM 1

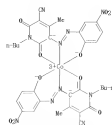
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CM 2

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CC 1 CC2

L20 ANDER 8 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



IN 066751-30-9 CAPLUS  
CN 2-[2-Benzyl-1-indolium-2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-1,3,3-trimethyl-5-[[1-ethyl-1,2,6,6-tetrahydro-5-[[2-(hexamethyl-6-nitrophenyl)azo- $\text{C}_6\text{H}_4$ ]-4-methyl-2-oxo-6-oxo- $\text{H}_2$ -3-pyridinecarboxylate(2-)]cobaltate(1-)](9CI) (CA INDEX NAME)

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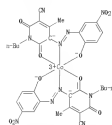
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CM 2

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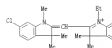
L20 ANDER 8 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



IN 066757-39-5 CAPLUS  
CN 2-[2-Benzyl-1-indolium-2-[(6-chloro-1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-1-ethyl-3,3-dimethyl-5-[[1-ethyl-1,2,6,6-tetrahydro-5-[[2-(hexamethyl-6-nitrophenyl)azo- $\text{C}_6\text{H}_4$ ]-4-methyl-2-oxo-6-oxo- $\text{H}_2$ -3-pyridinecarboxylate(2-)]cobaltate(1-)](9CI) (CA INDEX NAME)

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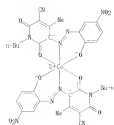
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CM 235 350 Cl NQ



CM 2

CN 330442-60-7  
CM 234 320 Co N10 910  
CC 1 CC2

US ANDREW S. QP 8 CAPLUS COPYRIGHT 2009 ACS on STM (continued)



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 L2 STRUCTURE UPLOADED  
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 L4 0 S L1 AND L2 FULL  
 L5 7 S L1  
 L6 214 S L1 FULL  
 L7 2 S L2  
 L8 81 S L2 FULL  
 L9 0 S L6 AND L8

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FILE 'REGISTRY' ENTERED AT 14:49:30 ON 16 DEC 2008

L13 STRUCTURE UPLOADED  
 L14 1 S L13  
 L15 25 S L13 FULL  
 L16 13 S L15 AND CAPLUS/LC  
 L17 12 S L15 NOT L16

FILE 'CAPLUS' ENTERED AT 14:52:32 ON 16 DEC 2008

L18 3 S L15  
 E AIZAWA YASUSHI/AU  
 L19 30 S E3  
 E KOYAMA YOSHINORI/AU  
 L20 84 S E3  
 E NOGUCHI AYASHI/AU  
 L21 16 S E3  
 L22 122 S L19 OR L20 OR L21  
 L23 19 S L22 AND CYANINE  
 SEL L23 11 RN

FILE 'REGISTRY' ENTERED AT 14:58:09 ON 16 DEC 2008

L24 4 S E1-E4

FILE 'HOME' ENTERED AT 14:59:36 ON 16 DEC 2008

FILE 'REGISTRY' ENTERED AT 15:01:56 ON 16 DEC 2008

L25 STRUCTURE UPLOADED  
 L26 8 S L25  
 L27 142 S L25 FULL  
 L28 14 S L6 AND L27  
 L29 14 S L6 AND L27 FULL

FILE 'CAPLUS' ENTERED AT 15:06:09 ON 16 DEC 2008

L30 8 S L28

```
=> s 16 and 127
      112 L6
      34 L27
L31      9 L6 AND L27

=> s 131 not 130
L32      1 L31 NOT L30

=> d bib abs hitstr
```



132 ANEX 1 OF 1 CAPUS COPYRIGHT 2000 ACS on STN  
 46 2000-272909 CAPUS

IN 143-50590

TI Short visible light absorbing cyanine dyes with good light resistance and

stability

IN Ariawa, Yasushi; Kovama, Yoshinori; Nagashio, Atsushi

PA Kokuhari Kasei Kenkyusha Seibutsu Kagaku Kenkyujo, Japan

20 PCT Int. Appl., 28 pp

INDEX FIKXDI

JP Patent

LA Japanese

FIG 1

PATENT NO

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FIG 1

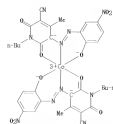
FIG 1

FIG 1

FIG 1

FIG 1

132 ANEX 1 OF 1 CAPUS COPYRIGHT 2000 ACS on STN (Continued)



IT 30099-41-9 41983-90-9 90300-11-3

RE RCT (Shantaro); RCT (Shantaro or reagent)  
 (short visible light absorbing cyanine dyes with good light resistance and solubility)

IN 30099-41-9 CAPUS

IN 30099-41-9 CAPUS  
 3,5,3'-trimethyl-, perchlorate (1:1) (CA INDEX NAME)

CH 1

CIN 6157-79-0

CF 233 327-90



CH 2

CIN 14797-73-0

CF 04



IN 41983-90-9 CAPUS

IN 41983-90-9 CAPUS  
 3,5,3'-trimethyl-, perchlorate (1:1) (CA INDEX NAME)

132 ANEX 1 OF 1 CAPUS COPYRIGHT 2000 ACS on STN (Continued)

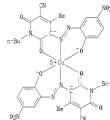
IN 30099-41-9 CAPUS  
 3,5,3'-trimethyl-, perchlorate (1:1) (CA INDEX NAME)

CH 1

CIN 6157-79-0

CF 234 350 CO N19 0-0 H

CF 234



CH 2

CIN 121-84-8

CF 04 315 H

Et

Et-N-Et

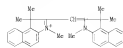
IN 90390-11-2 CAPUS

IN 90390-11-2 CAPUS  
 2-(2,3-dihydro-1,1,3-trimethyl-2H-benz[e]indol-2-ylidene)-1,1,3-trimethyl-, perchlorate (1:1) (CA INDEX NAME)

CH 1

CIN 16797-73-0

CF 04 315 H



CH 2

132 ANEX 1 OF 1 CAPUS COPYRIGHT 2000 ACS on STN (Continued)

IN 30099-41-9 CAPUS

CF 04



RE CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE PAKET

=> d his full

(FILE 'HOME' ENTERED AT 14:34:37 ON 16 DEC 2008)

FILE 'REGISTRY' ENTERED AT 14:34:59 ON 16 DEC 2008  
 L1 STRUCTURE UPLOADED  
     D  
 L2 STRUCTURE UPLOADED  
     D  
 L3 0 SEA SSS SAM L1 AND L2  
 L4 0 SEA SSS FUL L1 AND L2  
 L5 7 SEA SSS SAM L1  
 L6 214 SEA SSS FUL L1  
 L7 2 SEA SSS SAM L2  
     D SCAN  
 L8 81 SEA SSS FUL L2  
 L\*\*\* DEL 0 S L6 AND L7  
 L9 0 SEA ABB-ON PLU=ON L6 AND L8

FILE 'CAPLUS' ENTERED AT 14:42:19 ON 16 DEC 2008

L10 112 SEA ABB-ON PLU=ON L6  
 L11 5 SEA ABB-ON PLU=ON L8  
 L12 0 SEA ABB-ON PLU=ON L10 AND L11  
     D L11 1-5 BIB ABS HITSTR

FILE 'REGISTRY' ENTERED AT 14:46:10 ON 16 DEC 2008

D L1  
 D L2

FILE 'CAPLUS' ENTERED AT 14:47:08 ON 16 DEC 2008

SEL L23 11 RN

L24 FILE 'REGISTRY' ENTERED AT 14:58:09 ON 16 DEC 2008  
 4 SEA ABB=ON PLU=ON (103998-41-0/BI OR 330442-50-7/BI OR  
 419581-80-9/BI OR 863962-11-2/BI)  
 D 1-4 IDE CAN

FILE 'HOME' ENTERED AT 14:59:36 ON 16 DEC 2008

L25 FILE 'REGISTRY' ENTERED AT 15:01:56 ON 16 DEC 2008  
 STRUCTURE UPLOADED  
 D  
 L26 8 SEA SSS SAM L25  
 L27 142 SEA SSS FUL L25  
 L28 14 SEA ABB=ON PLU=ON L6 AND L27  
 D QUE L28 STAT  
 D 1-14 IDE CAN  
 L29 14 SEA ABB=ON PLU=ON L6 AND L27

L30 FILE 'CAPLUS' ENTERED AT 15:06:09 ON 16 DEC 2008  
 8 SEA ABB=ON PLU=ON L28  
 D 1-8 BIB ABS HITSTR  
 L31 9 SEA ABB=ON PLU=ON L6 AND L27  
 L32 1 SEA ABB=ON PLU=ON L31 NOT L30  
 D BIB ABS HITSTR

FILE HOME

FILE REGISTRY

strictly prohibited.

FILE COVERS 1907 - 16 Dec 2008 VOL 149 ISS 25  
FILE LAST UPDATED: 15 Dec 2008 (20081215/ED)

Caplus now includes complete International Patent Classification (IPC)  
reclassification data for the third quarter of 2008.

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COST IN U.S. DOLLARS

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|------------|---------|
| ENTRY      | SESSION |
| 51.45      | 1171.18 |

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

| SINCE FILE | TOTAL   |
|------------|---------|
| ENTRY      | SESSION |
| -7.20      | -33.60  |

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